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July 13, 2006

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WRITER'S DIRECT NUMBER:

Art Unit 2617

Attn: Mail Stop Amendment

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Utility Patent Application

Appl. No. 09/476,092; Filed: January 3, 2000

Analog Zero IF FM Decoder and Embodiments Thereof, Such as the

Family Radio Service

Inventors: Our Ref:

SORRELLS et al. 1744.0250001

Sir:

Transmitted herewith for appropriate action are the following documents:

- PTO Fee Transmittal Form (PTO/SB/17); 1.
- 2. Twelfth Supplemental Information Disclosure Statement;
- 3. A listing of the cited documents on Form PTO-1449 (5 pages);
- Copies of the cited documents (AM25, AJ26, AK26, AP61, AQ61, AR61); and 4.
- 5. One (1) return postcard; and
- 6. Credit Card Payment Form PTO-2038 in the amount of \$180.00 to cover the Information Disclosure Statement Fee.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Sterne, Kessler, Goldstein & Fox PLLC.: 1100 New York Avenue, NW: Washington, DC 20005: 202.371.2600 f 202.371.2540: www.skgf.com

Commissioner for Patents July 13, 2006 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSTER, GOLDSTEIN & FOX P.L.L.C.

Attorney for Applicants Registration No. 35,239

MQL/MKH:apg Enclosures

557266_1.DOC

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PTO/SB/17 (01-06) Approved for use through 07/31/2006. OMB 0651-0032

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction	n Act of 196	po persons are requir	ed to re	spond to a collection	of inform	nation unles	ss it displays	a valid OMB c	ontrol number
		Complete if Known							
Fees pursuant to the Consolida	Application Num	ber	09/476,092						
FEE TRA		Filing Date		January 3, 2000					
For	FY 2	006	[First Named Inve	entor	David F. SORRELLS			
Applicant claims small of		Examiner Name		Mehrpour, Naghmeh					
Applicant claims small e	-I	Art Unit		2617					
TOTAL AMOUNT OF PAYN		Attorney Docket	No.	1744.0250001					
METHOD OF PAYMENT (check all that apply)									
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FEE CALCULATION (AI	I the fees	below are due u	pon fil	ing or may be	subjec	t to a su	rcharge.)		
1. BASIC FILING, SEAR	CH, AND	EXAMINATION F	EES						·
	FILING		SEAR	CH FEES	EXAM	INATION			
Application Type	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee		Entity (\$)	Fees Pa	aid (\$)
Utility	300	150	500	250	200				
Design	200	100	100	50	130	6	55		
Plant	200	100	300	150	160	8	80		
Reissue	300	150	500	250	600	30	00		
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4. OTHER FEE(S) Non-English Specification, \$130 fee (no small entity discount)									
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SUBMITTED BY	H W		T (Registration No.			I = . ·		
signature JX				Attorney/Agent)	35,	239	Telephon	e (202) 3	71-2600
lame (Print/Type) Michael	O Lee						Date	July 13.	2006

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



In re application of:

Sorrells et al.

Appl. No.: 09/476,092

Filed: January 3, 2000

For:

Analog Zero IF FM Decoder and Embodiments Thereof, Such As

The Family Radio Service

Confirmation No.: 7304

Art Unit: 2617

Examiner: Mehrpour, Naghmeh

Atty. Docket: 1744.0250001

Twelfth Supplemental Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Twelfth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Eleventh Supplemental Information Disclosure Statement filed on May 8, 2006 in connection with the above-captioned application.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

07/17/2006 MBEYENE1 00000053 09476092

Applicants reserve the right to establish the patentability of the claimed health over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

Applicants provide the following comments regarding the documents:

Documents AM25, AJ26, and AK26 were cited in an Office Action in related Japanese Patent Application No. 2002-048676, filed October 18, 1999, entitled "Integrated Frequency Translation and Selectivity with a Variety of Filter Embodiments," directed to related subject matter. Also cited in said Office Action was Japanese Patent Publication No. 60-130203, which has already been cited in the present application.

Documents AG73 and AH73 were cited in an Office Action in related U.S. Patent Application No. 10/197,255, filed July 18, 2002, entitled "Networking Methods and Systems," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,703,584; 5,887,001; 6,298,065; and 6,850,742; and U.S. Patent Publication Nos. 2002/0080728 and 2002/0163921, which have already been cited in the present application.

Documents AI73 and AA74-AD74 were cited in an Office Action in related U.S. Patent Application No. 11/068,370, filed March 1, 2005, entitled "Method and System for Frequency Up-Conversion with a Variety of Transmitter Configurations," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,903,854 and 5,914,622, which have already been cited in the present application.

Document AE74 was cited in an Office Action in related U.S. Patent Application No. 09/567,977, filed May 10, 2000, entitled "Optical Down-converter Using Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action was Deboo, Gordon J., *Integrated Circuits and Semiconductor Devices*, 2nd

Edition, McGraw Hill, Inc., pp. 41-45 (1977), which has already been cited in the present application.

Documents AF74 and AG74 were cited in an Office Action in related U.S. Patent Application No. 10/086,367, filed March 4, 2002, entitled "Method and System for Frequency Up-Conversion," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 6,091,940, which has already been cited in the present application.

Documents AH74, AI74, AA75, AI76, AA77, and AB77 are co-owned patents which are directed to related subject matter.

Document AB75 was cited in an Office Action in related U.S. Patent Application No. 10/197,253, filed July 18, 2002, entitled "Networking Methods and Systems," directed to related subject matter.

Document AC75 was cited in an Office Action in related U.S. Patent Application No. 09/550,644, filed April 14, 2000, entitled "Method and System for Down-Converting an Electromagnetic Signal, Transforms for Same, and Aperture Relationships," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 6,404,758, which has already been cited in the present application.

Documents AD75-AG75 were cited in an Office Action in related U.S. Patent Application No. 11/107,861, filed April 18, 2005, entitled "Method and Apparatus for a Parallel Correlator and Applications Thereof," directed to related subject matter.

Documents AH75, AI75, and AA76-AC76 were cited in an Office Action in related U.S. Patent Application No. 11/230,732, filed September 21, 2005, entitled "Applications of Atty. Docket: 1744.0250001

Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 6,208,636 and 7,016,663, which have already been cited in the present application.

Documents AD76-AH76 were cited in a Notice of Allowance in related U.S. Patent Application No. 10/961,253, filed October 12, 2004, entitled "Apparatus, System, and Method for Down Converting and Up Converting Electromagnetic Signals," directed to related subject matter. Also cited in said Notice of Allowance was U.S. Patent No. 6,404,823, which has already been cited in the present application.

This statement should not be construed as a representation that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below:

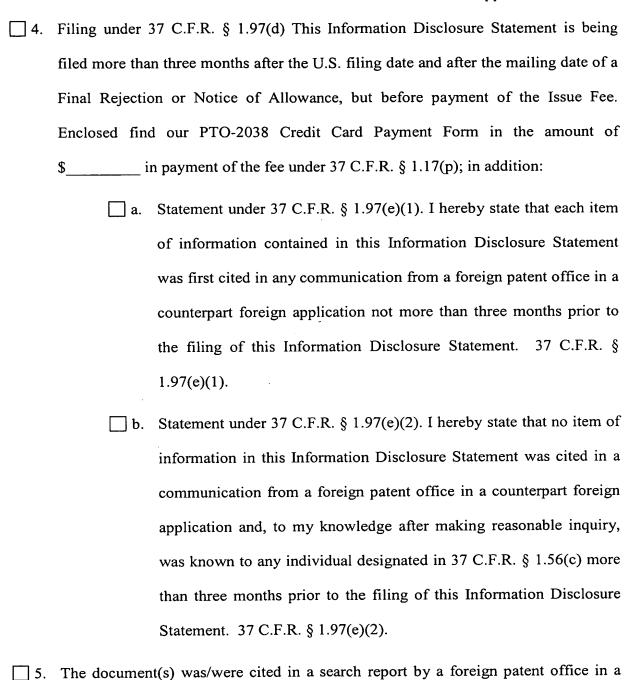
- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR

Atty. Docket: 1744.0250001

before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.

- - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
 - b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

Atty. Docket: 1744.0250001



counterpart foreign application. Submission of an English language version of the

search report that indicates the degree of relevance found by the foreign office is

provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

Document AM25 (JP 61-232706) appears to describe a frequency converter for signals. An English language abstract of document AM25 is enclosed as document AP61.

Document AJ26 (JP 9-171399) appears to describe a sound synthesizing method and circuit. An English language abstract of document AJ26 is enclosed as document AQ61.

Document AK26 (JP 10-41860) appears to describe an echo canceller. An English language abstract of document AK26 is enclosed as document AR61.

- ∑ 7. Copies of documents AM25, AJ26, AK26, and AP61-AR61 are enclosed. However, in accordance with 37 C.F.R. § 1.98(a)(2), copies of the U.S. patents and patent publications cited on the attached Form PTO-1449 are not enclosed.
- 8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No._______, filed _______, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).
- 9. It is expected that the examiner will review the prosecution and cited art in the parent application no(s). ______ in accordance with MPEP 2001.06(b), and

Atty. Docket: 1744.0250001

indicate in the next communication from the office that the art cited in the earlier

prosecution history has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the

- 8 -

enclosed Form PTO-1449, and indicate in the official file wrapper of this patent application

that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee

deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

espectfully submitted,

TERNE KESSLER, GOLDSTEIN & FOX P.L.L.C.

Michelle K. Holoubek

Attorney for Applicants Registration No. 54,179

Date:

July 13,2006

1100 New York Avenue, N.W. Washington, D.C. 20005-3934

(202) 371-2600

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JUL 1 3 2006 Page 1 of 5 ATTY. DOCKET NO. APPLICATION NO. TA TRADEMAN **FORM PTO-1449** 1744.0250001 09/476.092 FIRST NAMED INVENTOR SIXTH SUPPLEMENTAL David F. Sorrells INFORMATION DISCLOSURE STATEMENT FILING DATE **ART UNIT** January 3, 2000 2617 **U.S. PATENT DOCUMENTS EXAMINER** DOC. FILING DATE CLASS SUB-CLASS DATE NAME DOCUMENT NUMBER INITIAL REF. AΑ AB AC AD ΑE ΑF 07/2003 Johnson AG73 6,591,310 B1 Shaeffer et al. 6,963,626 B1 11/2005 **AH73** 03/1989 Kahn A173 4,811,422 **FOREIGN PATENT DOCUMENTS** EXAMINER DOC. SUB-CLASS TRANSLATION COUNTRY CLASS DATE DOCUMENT NUMBER REF. INITIAL Yes ΑJ No Yes ΑK No Yes AL No No 10/1986 JР JP 61-232706 AM25 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) EXAMINER DOC. CITATION INITIAL REF. **AN61** AO61 English-language Abstract of Japanese Patent Publication No. JP 61-232706, data supplied by the espacenet, AP61 1 page (October 17, 1986 - Date of publication of application). English-language Abstract of Japanese Patent Publication No. JP 9-171399, data supplied by the espacenet, AQ61 1 page (June 30, 1997 - Date of publication of application). English-language Abstract of Japanese Patent Publication No. JP 10-41860, data supplied by the espacenet, AR61 1 page (February 13, 1998 - Date of publication of application).

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

DATE CONSIDERED

EXAMINER

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FORM PTO-1449					TTY, DOCKET NO. 744 0250001		ICATION NO.			
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INITIAL	REF.	DOCUMENT NUMBER	DATE		NAME	CLASS	SUB-CLASS	FILING DATE		
	AA74	5,825,257	10/199	8	Klymyshyn et al.					
	AB74	5,986,600	11/199	99	McEwan					
	AC74	6,865,399 B2	03/200)5	Fujioka et al.					
	AD74	2006/0039449 A1	02/200)6	Fontana et al.					
	AE74	5,847,594	12/199	98	Mizuno					
	AF74	3,641,442	02/197	72	Boucher					
	AG74	5,140,699	08/199	92	Kozak					
	AH74	7,050,058 B2	05/200	06	Sorrells et al.					
	AI74	7,054,296 B1	05/200		Sorrells et al.					
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EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DAT		COUNTRY	CLASS	SUB-CLASS	TRANSLATION		
	AJ26	JP 9-171399	06/1	1997	JP			No		
	AK26	JP 10-41860	02/1	1998	JP			No Yes		
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	AA75	7,065,162 B1	06/2006	So	rrells et al.			
	AB75	2003/0149579 A1	08/2003	Ве	gemann <i>et al</i> .			
	AC75	5,063,387	11/1991	Mo	ower			
	AD75	5,535,402	07/1996	Le	ibowitz <i>et al</i> .			
	AE75	6,512,785 B1	01/2003	Zh	ou <i>et al</i> .			
	AF75	6,567,483 B1	05/2003	De	ent <i>et al.</i>			_
	AG75	6,775,684 B1	08/2004	То	yoyama et al.			
•	AH75	4,740,792	04/1988	Sa	igey et al.			
	AI75	5,239,687	08/1993		nen			
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	AA76	5,552,789	09/199						
	AB76	5,905,433	05/199		Wortham				
	AC76	6,647,270 B1	11/200		Himmelstein				
	AD76	6,034,566	03/200		Ohe				
	AE76	6,313,700 B1	11/200	1	Nishijima et al.				
	AF76	6,959,178 B2	10/200	5	Macedo et al.				
	AG76	6,999,747 B2	02/200	6	Su				
	AH76	2004/0125879 A1	07/200	4	Jaussi et al.				
	A176	7,072,390 B1	07/200		Sorrells et al.				
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INITIAL	REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE		
	AA77	7,072,427 B2	07/2006	Rawlins et al.					
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EXAMINER: In	tial if refe	rence considered, whether o	r not citation is	in conformance with MPEP 609.	Draw line throug	h citation if not	in conformance		
and not conside	red. Inclu	ide copy of this form with ne	xt communicati	on to Applicant.					
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